

INFORMATION DISCLOSURE STATEMENT

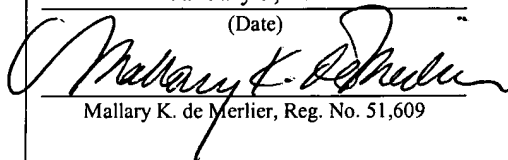
Applicant : Hellstrand et al.
App. No : 10/076,306
Filed : February 12, 2002
For : ENHANCED ACTIVATION OF
NATURAL KILLER CELLS USING
AN NK CELL ACTIVATOR AND A
HYDROGEN PEROXIDE
SCAVENGER OR INHIBITOR
Examiner : Holleran, Anne L.
Art Unit : 1642

CERTIFICATE OF MAILING

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January 3, 2005

(Date)


Mallery K. de Merlier, Reg. No. 51,609

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application is an Information Disclosure Statement by Applicant (PTO/SB/08 equivalent) listing one reference to be considered by the Examiner.

This Information Disclosure Statement is being filed before the mailing date of a final action and before the mailing of a Notice of Allowance. This Statement is accompanied by the fees set forth in 37 C.F.R. § 1.17(p). The Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 3 January 2005

By: 

Mallery K. de Merlier
Registration No. 51,609
Attorney of Record
Customer No. 20,995
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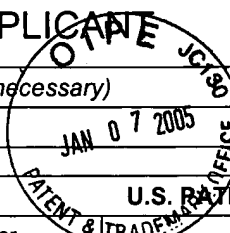
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 1

Application No.	10/076,306
Filing Date	February 12, 2002
First Named Inventor	Hellstrand, et al.
Art Unit	1642
Examiner	Holleran, Anne L.
Attorney Docket No.	MAXIM.026C3



U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,508,031	04-16-1996	Zimmerman et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹

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Date Considered

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SHEET 1 OF 6

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. MAXIM.26C3	APPLICATION NO. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Hellstrand, et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE February 12, 2002	GROUP Unknown 1642

11046 U.S. PTO
10/076306
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
ALH	5,348,739	09-1994	Hellstrand et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
ALH	JP 7-165582	08/27/95	Japan (with English translation in 15 pages)				
ALH	WO 93/24144	12/09/93	Patent Cooperation Treaty				
	0 247 613 A2	12/02/87	European Patent Office				

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
ALH	Abrams, et al., "Compared Mechanisms of Tumor Cytolysis by Human Natural Killer Cells and Activated Polymorphonuclear Leukocytes," <i>The Journal of Immunology</i> 132: No. 6, 3192-3196, June 1984.
ALH	Abrams, et al., "igh-Dose Recombinant Interleukin-2 Alone: A Regimen With Limited Activity in the Treatment of Advanced Renal Cell Carcinoma," <i>Journal of the National Cancer Institute</i> , 82: No. 14, 1202-1206, July 18, 1990.
duplicate	Alam, et al., "Comparative Effect of Recombinant IL-1, -2, -3, -4, and -6, IFN- , Granulocyte-Macrophage-Colony-Stimulating Factor, Tumor Necrosis Factor- , and Histamine-Releasing Factors on the Secretion of Histamine From Basophils," <i>The Journal of Immunology</i> , 142: No. 10, 3431-3435, May 18, 1989.
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EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. MAY 28 2003	APPLICATION NO. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Hellstrand, et al.	
		FILING DATE February 12, 2002	GROUP Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
attached	Brune, et al., "Remission maintenance therapy with histamine and interleukin-2 in acute myelogenous leukaemia," <i>British Journal of Haematology</i> , 92:620-626 (1996).
Att	Budd, et al., "Phase I Trial of High-Dose Bolus Interleukin-2 and Interferon Alfa-2a in Patients With Metastatic Malignancy," <i>Journal of Clinical Oncology</i> , 10: No. 5, 804-809, May 1992.
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Att	Dohlsten, et al., "Histamine Inhibits Interferon- Production via Suppression of Interleukin 2 Synthesis," <i>Cellular Immunology</i> , 101: 493-501, 1986.
Att	Dröge, et al., "Effect of Reactive Oxygen Intermediates and Antioxidants on Proliferation and Function of T Lymphocytes" <i>Methods in Enzymology</i> , 234:135-151 (1994).
Att	Dröge, et al., "Histamine Augments Interleukin-2 Production and the Activation of Cytotoxic T Lymphocytes," <i>Immunopharmacology</i> , 11: 1-6, 1986.
Att	Dutcher, et al., "A Phase II Study of High-Dose Continuous Infusion Interleukin-2 With Lymphokine-Activated Killer Cells in Patients With Metastatic Melanoma," <i>Journal of Clinical Oncology</i> , 9: No. 4, 641-648, April 1991..

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*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 809; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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SHEET 3 OF 6

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
MPEP 28C3APPLICATION NO.
UnknownINFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Hellstrand, et al.FILING DATE
February 12, 2002GROUP
Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
Aut	Duwe, et al., "Natural Killer Cell-Mediated Lysis Involves an Hydroxyl Radical-Dependent Step," <i>The Journal of Immunology</i> , 134: No. 4, 2637-2644, April 1985.
Aut	El-Hag, et al., "Down-Regulation of Human Natural Killer Activity Against Tumors by the Neutrophil Myeloperoxidase System and Hydrogen Peroxide," <i>The Journal of Immunology</i> 133: No. 6, 3291-3297, December 1984.
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Aut	Galligioni, "Natural killer (NK) and lymphokine activated killer (LAK) cell activity in patients (PTS) treated with Flavone acetic acid (FAA)," <i>Annals of Oncology</i> , 2: 145-150, 1991.
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Aut	Hellstrand, et al., "Monocyte-Mediated Suppression of IL-2-Induced NK-Cell Activation," <i>Scand J. Immunol</i> , 32: 183-192, 1990.
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EXAMINER

DATE CONSIDERED

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SHEET 4 OF 6

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MA38828C3APPLICATION NO.
UnknownINFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Hellstrand, et al.FILING DATE
February 12, 2002GROUP
Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
Aut	Hellstrand, et al., "Synergistic Activation of Human Natural Killer Cell Cytotoxicity by Histamine and Interleukin-2," <i>Int. Arch. Allergy Appl. Immunology</i> , 92: 379-389, 1990.
attached	Histamine augments interleukin-2 production and the activation of cytotoxic T lymphocytes, <i>Chemical Abstracts</i> , 104: Number 146898m, page 146891.
Aut	Hornung, et al., "Augmentation of Natural Killer Activity, Induction of IFN and Development Tumor Immunity During the Successful Treatment of Established Murine Renal Cancer Using Flavone Acetic Acid and IL-2," <i>The Journal of Immunology</i> , 141: No. 10, 3671-3679, November 15, 1988.
Aut	Huwylar, et al., "Effect of Ascorbic Acid on Human Natural Killer Cells," <i>Immunology Letters</i> , 10: 173-176, 1985.
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Aut	Kendall A. Smith, "Interleukin-2: Inception, Impact, and Implications," <i>Science</i> , 240: 1169-1176, May 27, 1988.
Aut	Kessel, et al., "Cytotoxicity by human adherent cells: oxygen-dependent and -independent cytotoxic reactions by different cell populations," <i>Immunology</i> , 58: 291-296, 1986.
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Aut	Krigel, et al., "enal Cell Carcinoma: Treatment With Recombinant Interleukin-2 Plus Beta-Interferon," <i>Journal of Clinical Oncology</i> , 8: No. 3, 460-467, March 1990.
Aut	Lasek, et al., "Potentiation of antitumor effects of tumor necrosis factor γ and interferon (by macrophage-colony-stimulating factor in a MnB16 melanoma model in mice" <i>Cancer Immunol Immunother</i> 40:315-321 (1995).
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attached	Los, et al., "Hydrogen peroxide as a potent activator of T lymphocyte functions" <i>Eur. Journal of Immunology</i> , 25:159-165 (1995).
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Aut	Mavligit, et al., "plenic Versus Hepatic Artery Infusion of Interleukin-2 in Patients with Liver Metastases," <i>Journal of Clinical Oncology</i> , 8: No. 2, 319-324, 1990.
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Aut	Munakata, et al., "Induction of Interferon- Production by Human Natural Killer Cells Stimulated by Hydrogen Peroxide," <i>The Journal of Immunology</i> , 134: No. 4, 2449-2455, April 1985.

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SHEET 5 OF 6

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. FMMARIM.26C3	APPLICATION NO. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Hellstrand, et al.	
		FILING DATE February 12, 2002	GROUP Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
Aut	Nabil Hanna, "The Role of Natural Killer Cells in the Control of Tumor Growth and Metastasis," <i>Biochimica et Biophysica Acta</i> , 780: 213-226, 1985.
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Aut	Rabilloud, et al., "Deficiency in Catalase Activity Correlates with the Appearance of Tumor Phenotype in Human Keratinocytes," <i>Int. J. Cancer</i> , 45: 952-956, 1990.
Aut	Richtsmeier, et al., "Selective, Histamine-Mediated Immunosuppression in Laryngeal Cancer," <i>Ann Otol Rhinol Laryngol</i> , 96: No. 5, 569-572, 1987.
Aut	Rosenberg, "The Development of New Immunotherapies for the Treatment of Cancer Using Interleukin-2," <i>Annals of Surgery</i> , 208: No. 2, 121-135, August 1988.
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Aut	Saarloos, et al., "Effects of Cancer Immunotherapy with Indomethacin and Interleukin-2 on Murine Hemopoietic Stem Cells," <i>Cancer Research</i> , 52: 6452-6462, December 1, 1992.
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Aut	Schantz, et al., "A phase II study of interleukin-2 and interferon-alpha in head and neck cancer," <i>Investigational New Drugs</i> , 10: 217-223, 1992.
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MAXIM.26C9
TRADEMARKAPPLICATION NO.
UnknownINFORMATION DISCLOSURE STATEMENT
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(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Hellstrand, et al.FILING DATE
February 12, 2002GROUP
Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
ALH	Shau, et al., "Inhibition of Lymphokine-Activated Killer- and Natural Killer-Mediated Cytotoxicities by Neutrophils," <i>The Journal of Immunology</i> , 143: No. 3, 1066-1072, August 1989.
ALH	Siegel, et al., "The IL-2 Receptor Chain (p70): Role in Mediating Signals for LAK, NK, and Proliferative Activities," <i>Science</i> , Volume 238, October 2, 1987
ALH	Sleijfer, et al., "Phase II Study of Subcutaneous Interleukin-2 in Unselected Patients With Advanced Renal Cell Cancer on an Outpatient Basis," <i>Journal of Clinical Oncology</i> , 10: No. 7, 1119-1123, July 1992.
ALH	Sone, et al., "Tumor cytotoxicity and interleukin 1 production of blood monocytes of lung cancer patients" <i>Cancer Immunol Immunother.</i> 30:357-362 (1990).
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ALH	Suthanthiran, et al., "Hydroxyl radical scavengers inhibit human natural killer cell activity," <i>Nature</i> 307: 276-278, (1984).
ALH	Szatrowski, et al., "Production of Large Amounts of Hydrogen Peroxide by Human Tumor Cells," <i>Cancer Research</i> , 51: 794-798, February 1991.
ALH	Tel-Or, et al., "Hydroperoxide Metabolism in Cyanobacteria," <i>Archives of Biochemistry and Biophysics</i> , 246: No. 1, 396-402, April 1986.
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